



IFWP

RAW SEQUENCE LISTING

DATE: 07/13/2006

PATENT APPLICATION: US/10/584,960

TIME: 09:24:03

Input Set : F:\421-99 PCT-US.ST25.txt

Output Set: N:\CRF4\07132006\J584960.raw

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3 <110> APPLICANT: The University of North Carolina
4   Threadgill, David W
5   Lee, Daekee
7 <120> TITLE OF INVENTION: MODULATION OF EPIDERMAL GROWTH FACTOR HETERODIMER ACTIVITY
9 <130> FILE REFERENCE: 421/99 PCT/US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/584,960
C--> 11 <141> CURRENT FILING DATE: 2006-06-30
11 <150> PRIOR APPLICATION NUMBER: US 60/545,185
12 <151> PRIOR FILING DATE: 2004-02-17
14 <150> PRIOR APPLICATION NUMBER: PCT/US2005/004968
15 <151> PRIOR FILING DATE: 2005-02-17
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn version 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 5616
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (247)..(3879)
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36 aggccacctc gtcggcgctc gcccgagtcg ccgcctcgcc gccaacgcc caaccaccgc      180
38 gcacggcccc ctgactccgt ccagtattga tcgggagagc cggagcgagc tcttcgggga      240
40 gcagcg atg cga ccc tcc ggg acg gcc ggg gca gcg ctc ctg gcg ctg      288
41   Met Arg Pro Ser Gly Thr Ala Gly Ala Ala Leu Leu Ala Leu
42     1           5           10
44 ctg gct gcg ctc tgc ccg gcg agt cgg gct ctg gag gaa aag aaa gtt      336
45 Leu Ala Ala Leu Cys Pro Ala Ser Arg Ala Leu Glu Glu Lys Lys Val
46 15           20           25           30
48 tgc caa ggc acg agt aac aag ctc acg cag ttg ggc act ttt gaa gat      384
49 Cys Gln Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp
50           35           40           45
52 cat ttt ctc agc ctc cag agg atg ttc aat aac tgt gag gtg gtc ctt      432
53 His Phe Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu
54           50           55           60
56 ggg aat ttg gaa att acc tat gtg cag agg aat tat gat ctt tcc ttc      480
57 Gly Asn Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe
58           65           70           75
60 tta aag acc atc cag gag gtg gct ggt tat gtc ctc att gcc ctc aac      528
61 Leu Lys Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn
62     80           85           90

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64 aca gtg gag cga att cct ttg gaa aac ctg cag atc atc aga gga aat      576
65 Thr Val Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn
66 95          100          105          110
68 atg tac tac gaa aat tcc tat gcc tta gca gtc tta tct aac tat gat      624
69 Met Tyr Tyr Glu Asn Ser Tyr Ala Leu Ala Val Leu Ser Asn Tyr Asp
70          115          120          125
72 gca aat aaa acc gga ctg aag gag ctg ccc atg aga aat tta cag gaa      672
73 Ala Asn Lys Thr Gly Leu Lys Glu Leu Pro Met Arg Asn Leu Gln Glu
74          130          135          140
76 atc ctg cat ggc gcc gtg cgg ttc agc aac aac cct gcc ctg tgc aac      720
77 Ile Leu His Gly Ala Val Arg Phe Ser Asn Asn Pro Ala Leu Cys Asn
78          145          150          155
80 gtg gag agc atc cag tgg cgg gac ata gtc agc agt gac ttt ctc agc      768
81 Val Glu Ser Ile Gln Trp Arg Asp Ile Val Ser Ser Asp Phe Leu Ser
82          160          165          170
84 aac atg tcg atg gac ttc cag aac cac ctg ggc agc tgc caa aag tgt      816
85 Asn Met Ser Met Asp Phe Gln Asn His Leu Gly Ser Cys Gln Lys Cys
86 175          180          185          190
88 gat cca agc tgt ccc aat ggg agc tgc tgg ggt gca gga gag gag aac      864
89 Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp Gly Ala Gly Glu Glu Asn
90          195          200          205
92 tgc cag aaa ctg acc aaa atc atc tgt gcc cag cag tgc tcc ggg cgc      912
93 Cys Gln Lys Leu Thr Lys Ile Ile Cys Ala Gln Gln Cys Ser Gly Arg
94          210          215          220
96 tgc cgt ggc aag tcc ccc agt gac tgc tgc cac aac cag tgt gct gca      960
97 Cys Arg Gly Lys Ser Pro Ser Asp Cys Cys His Asn Gln Cys Ala Ala
98          225          230          235
100 ggc tgc aca ggc ccc cgg gag agc gac tgc ctg gtc tgc cgc aaa ttc      1008
101 Gly Cys Thr Gly Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe
102          240          245          250
104 cga gac gaa gcc acg tgc aag gac acc tgc ccc cca ctc atg ctc tac      1056
105 Arg Asp Glu Ala Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr
106 255          260          265          270
108 aac ccc acc acg tac cag atg gat gtg aac ccc gag ggc aaa tac agc      1104
109 Asn Pro Thr Thr Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser
110          275          280          285
112 ttt ggt gcc acc tgc gtg aag aag tgt ccc cgt aat tat gtg gtg aca      1152
113 Phe Gly Ala Thr Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr
114          290          295          300
116 gat cac ggc tcg tgc gtc cga gcc tgt ggg gcc gac agc tat gag atg      1200
117 Asp His Gly Ser Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met
118          305          310          315
120 gag gaa gac ggc gtc cgc aag tgt aag aag tgc gaa ggg cct tgc cgc      1248
121 Glu Glu Asp Gly Val Arg Lys Cys Lys Lys Cys Glu Gly Pro Cys Arg
122          320          325          330
124 aaa gtg tgt aac gga ata ggt att ggt gaa ttt aaa gac tca ctc tcc      1296
125 Lys Val Cys Asn Gly Ile Gly Ile Gly Glu Phe Lys Asp Ser Leu Ser
126 335          340          345          350
128 ata aat gct acg aat att aaa cac ttc aaa aac tgc acc tcc atc agt      1344

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| 129 | Ile | Asn | Ala | Thr | Asn | Ile | Lys | His | Phe | Lys | Asn | Cys | Thr | Ser | Ile | Ser | |
| 130 | | | | | 355 | | | | | 360 | | | | | 365 | | |
| 132 | ggc | gat | ctc | cac | atc | ctg | ccg | gtg | gca | ttt | agg | ggg | gac | tcc | ttc | aca | 1392 |
| 133 | Gly | Asp | Leu | His | Ile | Leu | Pro | Val | Ala | Phe | Arg | Gly | Asp | Ser | Phe | Thr | |
| 134 | | | | 370 | | | | | 375 | | | | | 380 | | | |
| 136 | cat | act | cct | cct | ctg | gat | cca | cag | gaa | ctg | gat | att | ctg | aaa | acc | gta | 1440 |
| 137 | His | Thr | Pro | Pro | Leu | Asp | Pro | Gln | Glu | Leu | Asp | Ile | Leu | Lys | Thr | Val | |
| 138 | | | 385 | | | | | 390 | | | | | 395 | | | | |
| 140 | aag | gaa | atc | aca | ggg | ttt | ttg | ctg | att | cag | gct | tgg | cct | gaa | aac | agg | 1488 |
| 141 | Lys | Glu | Ile | Thr | Gly | Phe | Leu | Leu | Ile | Gln | Ala | Trp | Pro | Glu | Asn | Arg | |
| 142 | 400 | | | | | | 405 | | | | | 410 | | | | | |
| 144 | acg | gac | ctc | cat | gcc | ttt | gag | aac | cta | gaa | atc | ata | cgc | ggc | agg | acc | 1536 |
| 145 | Thr | Asp | Leu | His | Ala | Phe | Glu | Asn | Leu | Glu | Ile | Arg | Gly | Arg | Thr | | |
| 146 | 415 | | | | | 420 | | | | 425 | | | | | 430 | | |
| 148 | aag | caa | cat | ggg | cag | ttt | tct | ctt | gca | gtc | gtc | agc | ctg | aac | ata | aca | 1584 |
| 149 | Lys | Gln | His | Gly | Gln | Phe | Ser | Leu | Ala | Val | Val | Ser | Leu | Asn | Ile | Thr | |
| 150 | | | | 435 | | | | | | 440 | | | | | 445 | | |
| 152 | tcc | ttg | gga | tta | cgc | tcc | ctc | aag | gag | ata | agt | gat | gga | gat | gtg | ata | 1632 |
| 153 | Ser | Leu | Gly | Leu | Arg | Ser | Leu | Lys | Glu | Ile | Ser | Asp | Gly | Asp | Val | Ile | |
| 154 | | | | 450 | | | | | 455 | | | | | 460 | | | |
| 156 | att | tca | gga | aac | aaa | aat | ttg | tgc | tat | gca | aat | aca | ata | aac | tgg | aaa | 1680 |
| 157 | Ile | Ser | Gly | Asn | Lys | Asn | Leu | Cys | Tyr | Ala | Asn | Thr | Ile | Asn | Trp | Lys | |
| 158 | | | | 465 | | | | 470 | | | | | | 475 | | | |
| 160 | aaa | ctg | ttt | ggg | acc | tcc | ggg | cag | aaa | acc | aaa | att | ata | agc | aac | aga | 1728 |
| 161 | Lys | Leu | Phe | Gly | Thr | Ser | Gly | Gln | Lys | Thr | Lys | Ile | Ile | Ser | Asn | Arg | |
| 162 | 480 | | | | | | 485 | | | | | 490 | | | | | |
| 164 | ggg | gaa | aac | agc | tgc | aag | gcc | aca | ggc | cag | gtc | tgc | cat | gcc | ttg | tgc | 1776 |
| 165 | Gly | Glu | Asn | Ser | Cys | Lys | Ala | Thr | Gly | Gln | Val | Cys | His | Ala | Leu | Cys | |
| 166 | 495 | | | | | 500 | | | | | 505 | | | | 510 | | |
| 168 | tcc | ccc | gag | ggc | tgc | tgg | ggc | ccg | gag | ccc | agg | gac | tgc | gtc | tct | tgc | 1824 |
| 169 | Ser | Pro | Glu | Gly | Cys | Trp | Gly | Pro | Glu | Pro | Arg | Asp | Cys | Val | Ser | Cys | |
| 170 | | | | 515 | | | | | | 520 | | | | | 525 | | |
| 172 | cgg | aat | gtc | agc | cga | ggc | agg | gaa | tgc | gtg | gac | aag | tgc | aac | ctt | ctg | 1872 |
| 173 | Arg | Asn | Val | Ser | Arg | Gly | Arg | Glu | Cys | Val | Asp | Lys | Cys | Asn | Leu | Leu | |
| 174 | | | | 530 | | | | | 535 | | | | | 540 | | | |
| 176 | gag | ggg | gag | cca | agg | gag | ttt | gtg | gag | aac | tct | gag | tgc | ata | cag | tgc | 1920 |
| 177 | Glu | Gly | Glu | Pro | Arg | Glu | Phe | Val | Glu | Asn | Ser | Glu | Cys | Ile | Gln | Cys | |
| 178 | | | | 545 | | | | 550 | | | | | 555 | | | | |
| 180 | cac | cca | gag | tgc | ctg | cct | cag | gcc | atg | aac | atc | acc | tgc | aca | gga | cgg | 1968 |
| 181 | His | Pro | Glu | Cys | Leu | Pro | Gln | Ala | Met | Asn | Ile | Thr | Cys | Thr | Gly | Arg | |
| 182 | | | | 560 | | | | 565 | | | | | 570 | | | | |
| 184 | gga | cca | gac | aac | tgt | atc | cag | tgt | gcc | cac | tac | att | gac | ggc | ccc | cac | 2016 |
| 185 | Gly | Pro | Asp | Asn | Cys | Ile | Gln | Cys | Ala | His | Tyr | Ile | Asp | Gly | Pro | His | |
| 186 | 575 | | | | | 580 | | | | | 585 | | | | 590 | | |
| 188 | tgc | gtc | aag | acc | tgc | ccg | gca | gga | gtc | atg | gga | gaa | aac | aac | acc | ctg | 2064 |
| 189 | Cys | Val | Lys | Thr | Cys | Pro | Ala | Gly | Val | Met | Gly | Glu | Asn | Asn | Thr | Leu | |
| 190 | | | | | 595 | | | | | 600 | | | | | 605 | | |
| 192 | gtc | tgg | aag | tac | gac | gcc | ggc | cat | gtg | tgc | cac | ctg | tgc | cat | cca | | 2112 |
| 193 | Val | Trp | Lys | Tyr | Ala | Asp | Ala | Gly | His | Val | Cys | His | Leu | Cys | His | Pro | |

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| 196 | aac | tgc | acc | tac | gga | tgc | act | ggg | cca | ggt | ctt | gaa | ggc | tgt | cca | acg | 2160 |
| 197 | Asn | Cys | Thr | Tyr | Gly | Cys | Thr | Gly | Pro | Gly | Leu | Glu | Gly | Cys | Pro | Thr | |
| 198 | 625 | | | | 630 | | | | 635 | | | | | | | | |
| 200 | aat | ggg | cct | aag | atc | ccg | tcc | atc | gcc | act | ggg | atg | gtg | ggg | gcc | ctc | 2208 |
| 201 | Asn | Gly | Pro | Lys | Ile | Pro | Ser | Ile | Ala | Thr | Gly | Met | Val | Gly | Ala | Leu | |
| 202 | 640 | | | | 645 | | | | 650 | | | | | | | | |
| 204 | ctc | ttg | ctg | ctg | gtg | gtg | gcc | ctg | ggg | atc | ggc | ctc | ttc | atg | cga | agg | 2256 |
| 205 | Leu | Leu | Leu | Leu | Val | Val | Ala | Leu | Gly | Ile | Gly | Leu | Phe | Met | Arg | Arg | |
| 206 | 655 | | | | 660 | | | | 665 | | | | 670 | | | | |
| 208 | cgc | cac | atc | gtt | cgg | aag | cgc | acg | ctg | cgg | agg | ctg | ctg | cag | gag | agg | 2304 |
| 209 | Arg | His | Ile | Val | Arg | Lys | Arg | Thr | Leu | Arg | Arg | Leu | Leu | Gln | Glu | Arg | |
| 210 | 675 | | | | 680 | | | | 685 | | | | | | | | |
| 212 | gag | ctt | gtg | gag | cct | ctt | aca | ccc | agt | gga | gaa | gct | ccc | aac | caa | gct | 2352 |
| 213 | Glu | Leu | Val | Glu | Pro | Leu | Thr | Pro | Ser | Gly | Glu | Ala | Pro | Asn | Gln | Ala | |
| 214 | 690 | | | | 695 | | | | 700 | | | | | | | | |
| 216 | ctc | ttg | agg | atc | ttg | aag | gaa | act | gaa | ttc | aaa | aag | atc | aaa | gtg | ctg | 2400 |
| 217 | Leu | Leu | Arg | Ile | Leu | Lys | Glu | Thr | Glu | Phe | Lys | Lys | Ile | Lys | Val | Leu | |
| 218 | 705 | | | | 710 | | | | 715 | | | | | | | | |
| 220 | ggc | tcc | ggt | gcg | ttc | ggc | acg | gtg | tat | aag | gga | ctc | tgg | atc | cca | gaa | 2448 |
| 221 | Gly | Ser | Gly | Ala | Phe | Gly | Thr | Val | Tyr | Lys | Gly | Leu | Trp | Ile | Pro | Glu | |
| 222 | 720 | | | | 725 | | | | 730 | | | | | | | | |
| 224 | ggt | gag | aaa | gtt | aaa | att | ccc | gtc | gct | atc | aag | gaa | tta | aga | gaa | gca | 2496 |
| 225 | Gly | Glu | Lys | Val | Lys | Ile | Pro | Val | Ala | Ile | Lys | Glu | Leu | Arg | Glu | Ala | |
| 226 | 735 | | | | 740 | | | | 745 | | | | 750 | | | | |
| 228 | aca | tct | ccg | aaa | gcc | aac | aag | gaa | atc | ctc | gat | gaa | gcc | tac | gtg | atg | 2544 |
| 229 | Thr | Ser | Pro | Lys | Ala | Asn | Lys | Glu | Ile | Leu | Asp | Glu | Ala | Tyr | Val | Met | |
| 230 | 755 | | | | 760 | | | | 765 | | | | | | | | |
| 232 | gcc | agc | gtg | gac | aac | ccc | cac | gtg | tgc | cgc | ctg | ctg | ggc | atc | tgc | ctc | 2592 |
| 233 | Ala | Ser | Val | Asp | Asn | Pro | His | Val | Cys | Arg | Leu | Leu | Gly | Ile | Cys | Leu | |
| 234 | 770 | | | | 775 | | | | 780 | | | | | | | | |
| 236 | acc | tcc | acc | gtg | cag | ctc | atc | acg | cag | ctc | atg | ccc | ttc | ggc | tgc | ctc | 2640 |
| 237 | Thr | Ser | Thr | Val | Gln | Leu | Ile | Thr | Gln | Leu | Met | Pro | Phe | Gly | Cys | Leu | |
| 238 | 785 | | | | 790 | | | | 795 | | | | | | | | |
| 240 | ctg | gac | tat | gtc | cgg | gaa | cac | aaa | gac | aat | att | ggc | tcc | cag | tac | ctg | 2688 |
| 241 | Leu | Asp | Tyr | Val | Arg | Glu | His | Lys | Asp | Asn | Ile | Gly | Ser | Gln | Tyr | Leu | |
| 242 | 800 | | | | 805 | | | | 810 | | | | | | | | |
| 244 | ctc | aac | tgg | tgt | gtg | cag | atc | gca | aag | ggc | atg | aac | tac | ttg | gag | gac | 2736 |
| 245 | Leu | Asn | Trp | Cys | Val | Gln | Ile | Ala | Lys | Gly | Met | Asn | Tyr | Leu | Glu | Asp | |
| 246 | 815 | | | | 820 | | | | 825 | | | | 830 | | | | |
| 248 | cgt | cgc | ttg | gtg | cac | cgc | gac | ctg | gca | gcc | agg | aac | gta | ctg | gtg | aaa | 2784 |
| 249 | Arg | Arg | | | | | | | | | | | | | | | |

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| 261 | Lys | Trp | Met | Ala | Leu | Glu | Ser | Ile | Leu | His | Arg | Ile | Tyr | Thr | His | Gln | |
| 262 | | 880 | | | | | 885 | | | | | 890 | | | | | |
| 264 | agt | gat | gtc | tgg | agc | tac | ggg | gtg | acc | gtt | tgg | gag | ttg | atg | acc | ttt | 2976 |
| 265 | Ser | Asp | Val | Trp | Ser | Tyr | Gly | Val | Thr | Val | Trp | Glu | Leu | Met | Thr | Phe | |
| 266 | 895 | | | | | 900 | | | | | 905 | | | | | 910 | |
| 268 | gga | tcc | aag | cca | tat | gac | gga | atc | cct | gcc | agc | gag | atc | tcc | tcc | atc | 3024 |
| 269 | Gly | Ser | Lys | Pro | Tyr | Asp | Gly | Ile | Pro | Ala | Ser | Glu | Ile | Ser | Ser | Ile | |
| 270 | | | | | 915 | | | | | 920 | | | | | | 925 | |
| 272 | ctg | gag | aaa | gga | gaa | cgc | ctc | cct | cag | cca | ccc | ata | tgt | acc | atc | gat | 3072 |
| 273 | Leu | Glu | Lys | Gly | Glu | Arg | Leu | Pro | Gln | Pro | Pro | Ile | Cys | Thr | Ile | Asp | |
| 274 | | | | 930 | | | | | 935 | | | | | 940 | | | |
| 276 | gtc | tac | atg | atc | atg | gtc | aag | tgc | tgg | atg | ata | gac | gca | gat | agt | cgc | 3120 |
| 277 | Val | Tyr | Met | Ile | Met | Val | Lys | Cys | Trp | Met | Ile | Asp | Ala | Asp | Ser | Arg | |
| 278 | | | 945 | | | | | 950 | | | | | | 955 | | | |
| 280 | cca | aag | ttc | cgt | gag | ttg | atc | atc | gaa | ttc | tcc | aaa | atg | gcc | cga | gac | 3168 |
| 281 | Pro | Lys | Phe | Arg | Glu | Leu | Ile | Ile | Glu | Phe | Ser | Lys | Met | Ala | Arg | Asp | |
| 282 | | 960 | | | | | 965 | | | | | 970 | | | | | |
| 284 | ccc | cag | cgc | tac | ctt | gtc | att | cag | ggg | gat | gaa | aga | atg | cat | ttg | cca | 3216 |
| 285 | Pro | Gln | Arg | Tyr | Leu | Val | Ile | Gln | Gly | Asp | Glu | Arg | Met | His | Leu | Pro | |
| 286 | 975 | | | | | 980 | | | | | 985 | | | | | 990 | |
| 288 | agt | cct | aca | gac | tcc | aac | ttc | tac | cgt | gcc | ctg | atg | gat | gaa | gaa | gac | 3264 |
| 289 | Ser | Pro | Thr | Asp | Ser | Asn | Phe | Tyr | Arg | Ala | Leu | Met | Asp | Glu | Glu | Asp | |
| 290 | | | | | 995 | | | | | 1000 | | | | | | 1005 | |
| 292 | atg | gac | gac | gtg | gtg | gat | gcc | gac | gag | tac | ctc | atc | cca | cag | cag | | 3309 |
| 293 | Met | Asp | Asp | Val | Val | Asp | Ala | Asp | Glu | Tyr | Leu | Ile | Pro | Gln | Gln | | |
| 294 | | | | 1010 | | | | | | 1015 | | | | | 1020 | | |
| 296 | ggc | ttc | ttc | agc | agc | ccc | tcc | acg | tca | cgg | act | ccc | ctc | ctg | agc | | 3354 |
| 297 | Gly | Phe | Phe | Ser | Ser | Pro | Ser | Thr | Ser | Arg | Thr | Pro | Leu | Leu | Ser | | |
| 298 | | | | 1025 | | | | | | 1030 | | | | | 1035 | | |
| 300 | tct | ctg | agt | gca | acc | agc | aac | aat | tcc | acc | gtg | gct | tgc | att | gat | | 3399 |
| 301 | Ser | Leu | Ser | Ala | Thr | Ser | Asn | Asn | Ser | Thr | Val | Ala | Cys | Ile | Asp | | |
| 302 | | | | 1040 | | | | | | 1045 | | | | | 1050 | | |
| 304 | aga | aat | ggg | ctg | caa | agc | tgt | ccc | atc | aag | gaa | gac | agc | ttc | ttg | | 3444 |
| 305 | Arg | Asn | Gly | Leu | Gln | Ser | Cys | Pro | Ile | Lys | Glu | Asp | Ser | Phe | Leu | | |
| 306 | | | | 1055 | | | | | | 1060 | | | | | 1065 | | |
| 308 | cag | cga | tac | agc | tca | gac | ccc | aca | ggc | gcc | ttg | act | gag | gac | agc | | 3489 |
| 309 | Gln | Arg | Tyr | Ser | Ser | Asp | Pro | Thr | Gly | Ala | Leu | Thr | Glu | Asp | Ser | | |
| 310 | | | | 1070 | | | | | | 1075 | | | | | 1080 | | |
| 312 | ata | gac | gac | acc | ttc | ctc | cca | gtg | cct | gaa | tac | ata | aac | cag | tcc | | 3534 |
| 313 | Ile | Asp | Asp | Thr | Phe | Leu | Pro | Val | Pro | Glu | Tyr | Ile | Asn | Gln | Ser | | |
| 314 | | | | 1085 | | | | | | 1090 | | | | | 1095 | | |
| 316 | gtt | ccc | aaa | agg | ccc | gct | ggc | tct | gtg | cag | aat | cct | gtc | tat | cac | | 3579 |
| 317 | Val | Pro | Lys | Arg | Pro | Ala | Gly | Ser | Val | Gln | Asn | Pro | Val | Tyr | His | | |
| 318 | | | | 1100 | | | | | | 1105 | | | | | 1110 | | |
| 320 | aat | cag | cct | ctg | aac | ccc | gcg | ccc | agc | aga | gac | cca | cac | tac | cag | | 3624 |
| 321 | Asn | Gln | Pro | Leu | Asn | Pro | Ala | Pro | Ser | Arg | Asp | Pro | His | Tyr | Gln | | |
| 322 | | | | 1115 | | | | | | 1120 | | | | | 1125 | | |
| 324 | gac | ccc | cac | agc | act | gca | gtg | ggc | aac | ccc | gag | tat | ctc | aac | act | | 3669 |

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/584,960

DATE: 07/13/2006

TIME: 09:24:04

Input Set : F:\421-99 PCT-US.ST25.txt

Output Set: N:\CRF4\07132006\J584960.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date